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ABSTRACT

This document, mandated by the University Research Center Act of 1988, presents financial balance sheets listing receipts and disbursements of research funds for research activities being conducted at the eight state-supported universities in Mississippi: Alcorn State University; Delta State University; Jackson State University; Mississippi State University; Mississippi University for Women; Mississippi Valley State University; the University of Mississippi; and the University of Southern Mississippi. The external sources of funds identified in the balance sheets are representative of the quality and national competitiveness of the universities in Mississippi. These resources provide essential funds which strengthen Mississippi's public institutions of higher learning in the areas of teaching, research, and service. For each university, the report shows the annual dollars allocated for research and sponsored programs, by college/division, award amounts, and award sources (federal, state, and private/corporate). A section on university research groups describes the Mississippi University Research Authority, Mississippi Research Consortium, and Mississippi Education and Research Group. (SM)

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Mississippi

Board of Trustees of
State Institutions of Higher Learning

Thomas D. Layzell, Commissioner

'99 RESEARCH CATALOG

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University Research Center

September 1999

HE 032 800

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Mississippi

Board of Trustees of
State Institutions of Higher Learning

Thomas D. Layzell, Commissioner

'99 RESEARCH CATALOG

University Research Center
Compiled by the Office of Research and Planning
September 1999

RESEARCH CATALOG
1998-1999

FROM THE COMMISSIONER:

The external resources identified in the ***Research Catalog*** represent the quality and national competitiveness of the universities in the State of Mississippi. These resources provide essential funds which strengthen our public institutions of higher learning in the areas of teaching, research, and service.

The ***Research Catalog*** is mandated by the University Research Center Act of 1988. This publication is an indicator of the enormity of research activities being conducted by the eight (8) state-supported universities.

The objectives for disseminating the system's research efforts are as follows:

- Assist in developing strong legislative funding support,
- Improve the national and international image of Mississippi universities as research institutions,
- Encourage external funding support for the state universities,
- Enhance technology transfer and the practical application of research funding,
- Indicate the extent of research activities being conducted in the state universities,
- Clarify the scope of research activities, and
- List the disciplines generating research.

Because of its comprehensiveness, the ***Research Catalog*** is used by state policy makers, the educational community, economic developers, and the general public.

Note:

* The ***Research Catalog*** includes awards for research and sponsored programs, but no longer includes student financial aid dollars.
* Please call the designated research official at each university for specific research information.
* Please call (601) 982-6296 for information concerning the ***Research Catalog***.

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Note:

* All administrative contacts listed for each university are current officers including names, titles and phone numbers.

ALCORN STATE UNIVERSITY

Institutional Annual Report on Research and Sponsored Programs

Dr. Clinton Bristow, Jr. - President
Dr. Franklin D. Jackson - Vice President for Institutional Advancement, Planning and Research
Phone (601) 877-6118

Period Covered: July 1, 1998 - June 30, 1999

I.	**Award Distribution - College/Division**	**Amount**	
	School of General College for Excellence	$ 494,743.00	
	School of Arts and Sciences	1,603,563.00	
	School of Education and Psychology	680,745.00	
	School of Agriculture, Research, Extension, and Applied Sciences	5,925,407.00	
	School of Business	85,000.00	
	School of Nursing	492,939.00	
	Office of Strengthening Institutions Program (Title III)	1,655,014.00	
	Office of Community Development	111,932.00	
	TOTAL		**$11,049,343.00**

II.	**Award Source**	**Amount**	
	Federal		
	U.S. Department of Health and Human Services	$ 311,518.00	
	National Institute of Health	690,031.00	
	U.S. Department of Agriculture	4,859,487.00	
	U.S. Department of Education	2,402,266.00	
	U.S. Department of Energy	293,725.00	
	U.S. Department of Defense	56,155.00	
	Total Federal		**$8,301,664.00**
	Total State Agencies		**$726,114.00**
	Total Private Foundations/Corporate		**$508,451.00**
	Total Other		**$1,201,596.00**
	TOTAL		**$11,049,343.00**

These awards supported a total of 73 projects in FY 1999.

DELTA STATE UNIVERSITY

Institutional Annual Report on Research and Sponsored Programs

Dr. David L. Potter - President
Dr. Michelle A-M Roberts - Director of Institutional Research and Planning
Phone (662) 846-4050

Period Covered: July 1, 1998 - June 30, 1999

I.	Award Distribution - College/Division	Amount	
	School of Arts and Sciences	$ 974,550.13	
	School of Business	69,446.17	
	School of Education	221,652.04	
	Vice President for Academic Affairs	25,236.03	
	Vice President for Student Affairs	852,136.78	
	Vice President for University Advancement	43,623.46	
	Center for Economic Development	195,429.51	
	Center for Community Development	1,411,518.43	
	School of Nursing	69,898.55	
	TOTAL		**$3,863,491.10**

II.	Award Source	Amount	
	Federal		
	U.S. Department of Agriculture	$776,723.79	
	U.S. Department of Commerce	180,429.51	
	U.S. Department of Education	223,921.18	
	U.S. Department of Health and Human Services	828,218.08	
	U. S. Department of Justice	17,095.36	
	U. S. Small Business Administration	38,425.17	
	National Aeronautics and Space Administration	12,756.10	
	National Science Foundation	40,656.74	
	Total Federal		**$2,118,225.93**
	Total State Agencies		**$1,088,804.80**
	Total Private Foundations/Corporate		**$559,068.44**
	Total Other Sources		**$97,391.93**
	TOTAL		**$3,863,491.10**

These awards supported a total of 29 projects in FY 1999.

JACKSON STATE UNIVERSITY

Institutional Annual Report on Research and Sponsored Programs

Dr. Bettye Ward Fletcher, Interim President
Dr. Felix A. Okojie - Interim Vice President for Research and Development
Phone (601) 968-2931

Period Covered: July 1, 1998 - June 30, 1999

I.	**Award Distribution - College/Division**	**Amount**
	School of Allied Health	$ 150,440.00
	School of Business	$2,043,693.00
	School of Education	341,797.00
	School of Liberal Arts	2,420,356.00
	School of Science and Technology	7,644,930.00
	School of Social Work	82,624.00
	International Programs	3,882,135.00
	Office of Executive Vice President	557,548.00
	Vice President for Academic Affairs	3,462,037.00
	Vice President for Research and Development	2,790,754.00
	Vice President for Student Affairs	516,690.00
	TOTAL	**$23,893,004.00**

II.	**Award Source**	**Amount**
	Federal	
	U.S. Department of Agriculture	$ 95,700.00
	U.S. Department of Commerce	284,000.00
	U.S. Department of Defense	1,301,979.00
	U.S. Department of Energy	566,807.00
	U.S. Department of Education	4,564,781.00
	U.S. Department of Labor	25,000.00
	U.S. Department of Transportation	68,200.00
	U.S. Environmental Protection Agency	50,000.00
	U.S. Department of Health and Human Services	2,148,284.00
	U.S. Depart. of Housing and Urban Development	1,337,842.00
	U.S. Information Agency	1,739,360.00

II.	Award Source	Amount	
	Federal (continued)		
	National Aeronautics and Space Administration	1,597,054.00	
	National Institute of Health	4,018,183.00	
	National Collegiate Athletic Association	113,500.00	
	National Science Foundation	1,884,902.00	
	Small Business Administration	216,847.00	
	Tennessee Valley Authority	5,000.00	
	Total Federal		**$20,017,439.00**
	Total State Agencies		**$1,661,758.00**
	Total Private Foundations/Corporate		**$1,986,807.00**
	Total Foundations and Non-Profit Agencies		**$227,000.00**
	TOTAL		**$23,893,004.00**

These awards supported a total of 150 projects in FY 1999.

MISSISSIPPI STATE UNIVERSITY

Institutional Annual Report on Research and Sponsored Programs

Dr. Malcolm Portera - President
Dr. Robert A. Altenkirch - Vice President for Research
Dr. J. Charles Lee - Vice President for Agriculture, Forestry and Veterinary Medicine
Phone (601) 325-3570

Period Covered: July 1, 1998 - June 30, 1999

I.	**Award Distribution - College/Division**	**Amount**
	Agriculture and Home Economics	$ 243,531.00
	Architecture	200,416.00
	Arts and Sciences	2,603,950.00
	Branch Campuses	217,675.00
	Business and Industry	408,595.00
	Centers and Institutes	15,890,291.00
	Continuing Education	1,112,562.00
	Education	3,645,199.00
	Engineering	25,332,061.00
	Forest Resources/FWRC	2,280,568.00
	Mississippi Agriculture and Forestry Experiment Station (MAFES)	11,536,194.00
	Mississippi State University Experiment Station	5,857,300.00
	Other	9,873.00
	College of Veterinary Medicine	1,372,770.00
	Vice President for Research	750,000.00
	Vice President for Student Affairs	377,936.00
	TOTAL	**$71,838,921.00**

II.	**Award Source**	**Amount**
	Federal	
	U.S. Agency for International Development	$ 1,809,358.00
	U.S. Department of Agriculture	10,494,683.00
	U.S. Department of Education	1,559,247.00
	U.S. Department of Commerce	120,000.00

Award Source	Amount	
Federal (continued)		
U.S. Department of Defense	10,905,732.00	
U.S. Department of Energy	7,113,928.00	
U.S. Department of Interior	1,527,495.00	
U.S. Department of Health and Human Services	465,231.00	
U.S. Department of Labor	434,000.00	
U.S. Environmental Protection Agency	456,786.00	
National Aeronautics and Space Administration	8,017,951.00	
National Science Foundation	4,733,772.00	
National Security Agency	15,000.00	
Tennessee Valley Authority	268,274.00	
Other Federal	60,000.00	
Total Federal		**$47,981,457.00**
Total State Agencies		**$10,098,321.00**
Private Foundations/Corporate		
Private Foundations/Corporate	$8,352,344.00	
Foundations and Non-Profit Agencies	2,891,577.00	
Other State Governments	219,147.00	
Other Universities	1,993,541.00	
Foreign Governments and Organizations	302,535.00	
Total Private Foundations/Corporate		**$13,759,144.00**
TOTAL		**$71,838,921.00**

These awards supported a total of 960 projects in FY 1999.

MISSISSIPPI UNIVERSITY for WOMEN

Institutional Annual Report on Research and Sponsored Programs

Dr. Clyda Rent - President
Dr. Ben L. Mitchell - Vice President of Finance and Administration
Phone (601) 329-7145

Period Covered July 1, 1998 - June 30, 1999

I.	**Award Distribution - College/Division**	**Amount**	
	Division of Business and Communication	$ 40,000.00	
	Division of Education and Human Sciences	62,874.57	
	Division of Interdisciplinary Studies	125,000.00	
	Division of Nursing	114,999.96	
	Division of Science and Mathematics	187,247.80	
	Division of Humanities	28,300.00	
	Academic Support	3,590,341.40	
	Other Units	429,660.31	
	TOTAL		**$4,578,424.04**

II.	**Award Source**	**Amount**	
	Federal		
	U.S. Department of Education	$257,649.17	
	National Science Foundation	60,364.90	
	National Aeronautics and Space Administration	9,000.00	
	Total Federal		**$327,014.07**
	Total State Agencies		**$3,663,293.83**
	Total Private Foundations/Corporate		**$588,116.14**
	TOTAL		**$4,578,424.04**

These awards supported a total of 28 projects in FY 1999.

MISSISSIPPI VALLEY STATE UNIVERSITY

Institutional Annual Report on Research and Sponsored Programs

Dr. Lester C. Newman - President
Dr. Adell Brown - Vice President for Research, Planning, Community and Economic Development
Phone (662) 254-3979

Period Covered: July 1, 1998 - June 30, 1999

I.	**Award Distribution - College/Division**	**Amount**	
	Academic Support	$ 577,648.00	
	Administrative Support	677,650.00	
	Business and Industry	331,790.00	
	Education	313,587.00	
	Liberal Arts	514,030.00	
	Outreach Programs	2,479,856.00	
	Science and Technology	1,121,659.00	
	Student Personnel	70,412.00	
	TOTAL		**$6,086,632.00**

II.	**Award Source**	**Amount**	
	Federal		
	U.S. Department of Agriculture	$ 700,204.00	
	U.S. Department of Education	2,766,288.00	
	U.S. Department of Energy	206,847.00	
	U.S. Department of Health and Human Services	75,300.00	
	Mid-Delta Empowerment Zone Alliance	326,843.00	
	National Science Foundation	166,729.00	
	U.S. Department of Commerce	90,000.00	
	U. S. Department of Defense (NASA)	299,292.00	
	U.S. Department of Justice	155,898.00	
	Total Federal		**$4,787,401.00**
	Total State Agencies		**$909,419.00**
	Total Private Foundations/Corporate		**$389,812.00**
	TOTAL		**$6,086,632.00**

These awards supported a total of 42 projects in FY 1999.

UNIVERSITY of MISSISSIPPI

Institutional Annual Report on Research and Sponsored Programs

Dr. Robert C. Khayat - Chancellor

Dr. A. Wallace Conerly - Vice Chancellor for Health Affairs
Phone (601) 984-1010

Dr. Ronald F. Borne - Interim Vice Chancellor for Research
Phone (601) 232-7482

Period Covered: July 1, 1998 - June 30, 1999

I.	**Award Distribution - College/Division**	**Amount**	
A.	**Oxford Campus**		
	College of Liberal Arts	$ 5,559,130.00	
	School of Business Administration	1,649,160.00	
	School of Education	950,395.00	
	School of Engineering	3,013,433.00	
	School of Law	136,423.00	
	School of Pharmacy	11,544,703.00	
	Other Units	11,253,279.00	
	Total Oxford Campus		**$34,106,523.00**
B.	**Medical Center**		
	Academic Support	$ 7,366.00	
	School of Dentistry	61,895.00	
	School of Health Related Professions	123,024.00	
	School of Medicine	32,220,382.00	
	School of Nursing	338,150.00	
	Teaching Hospital	414,954.00	
	Total Medical Center		**$33,165,771.00**
	TOTAL		**$67,272,294.00**

II.	Award Source	Amount	
	Federal		
	Department of Agriculture	$ 13,054,311.00	
	Department of Commerce	760,123.00	
	Department of Justice	4,750,646.00	
	Department of Education	475,635.00	
	Department of Justice	663,792.00	
	Department of Health and Human Services	31,744,455.00	
	Department of Interior	238,754.00	
	U.S. Department of Transportation	1,460,524.00	
	Department of Veterans Affairs	299,604.00	
	Center for Disease Control	10,000.00	
	Environmental Protection Agency	1,073,128.00	
	National Aeronautics and Space Administration	1,799,347.00	
	National Science Foundation	3,626,794.00	
	Small Business Administration	840,400.00	
	Tennessee Valley Authority	37,070.00	
	Total Federal		**$60,834,583.00**
	Total State Agencies		**$1,984,179.00**
	Total Private Foundations/Corporate/Other		**$4,453,532.00**
	TOTAL		**$67,272,294.00**

These awards supported a total of 379 projects in FY 1999.
Oxford Campus - 249 projects
Medical Center - 130 projects

UNIVERSITY of SOUTHERN MISSISSIPPI

Institutional Annual Report on Research and Sponsored Programs

Dr. Horace Fleming- President
Dr. Donald Cotten - Vice President for Research
Phone (601) 266-5116

Period Covered: July 1, 1998 - June 30, 1999

I.	**Award Distribution - College/Division**	**Amount**
	Administrative Affairs	$ 55,887.00
	Arts	44,183.00
	Business Administration	156,526.00
	Business and Finance	12,900.00
	Education and Psychology	880,426.00
	Gulf Coast Divisions	436,036.00
	Health and Human Sciences	3,991,603.00
	Honors College	1,073.00
	Institute for Disability Studies	961,894.00
	Institute of Marine Sciences	10,218,287.00
	International and Continuing Education	186,576.00
	Liberal Arts	1,026,959.00
	Nursing	138,851.00
	Provost	1,985.00
	Research	3,399,947.00
	Science and Technology	8,426,134.00
	Student Affairs	215,210.00
	Universities Libraries	2,000.00
	TOTAL	**$30,156,477.00**

II.	**Award Source**	**Amount**
	Federal	
	U.S. Department of Agriculture	$1,926,112.00
	U.S. Department of Commerce	6,146,322.00
	U.S. Department of Defense	5,666,374.00
	U. S. Department of Education	1,651,810.00
	U.S. Environmental Protection Agency	593,164.00
	U.S. Department of Health and Human Services	2,858,831.00

University of Southern Mississippi (continued)

Award Source	Amount	
Federal (continued)		
U.S. Department of Interior	789,253.00	
U.S. Department of Justice	42,559.00	
U.S. Department of Transportation	333,653.00	
National Aeronautics and Space Administration	1,149,425.00	
National Endowment for the Arts	55,444.00	
National Endowment for Humanities	63,985.00	
National Science Foundation	1,487,359.00	
Other Federal Agencies	871,389.00	**$23,635,680.00**
Total Federal		**$3,469,819.00**
Total State Agencies		**$3,050,978.00**
Total Private Foundations/Corporate/Other		
TOTAL		**$30,156,477.00**

These awards supported a total of 367 projects in FY 1999.

UNIVERSITY RESEARCH GROUPS

Mississippi University Research Authority (MURA)

The primary role of the Mississippi University Research Authority (MURA), which was authorized by the Legislature in 1992 through the Mississippi University Research Authority Act, is to facilitate the commercialization of technologies developed or discovered in campus environments and to enhance the economic development of the state through such commercialization. Before 1993, the ethics laws of Mississippi effectively prohibited university faculty from commercializing their research. These laws were established to prohibit public servants from engaging in activities which would be in conflict with their public positions. They were presumably intended for public officials, but the language was such that attempts by faculty members of a university to commercialize technology could be construed as a violation of the laws.

MURA enables faculty members who conceive of new technologies to copyright or patent their discoveries, to participate in the development of the technologies, and to realize some commercial benefit. It allows individuals who have developed or discovered new technologies to be a part of new spin-off businesses in Mississippi, rather than being forced to channel their discoveries through agencies and businesses outside of Mississippi. It allows for the investment made by Mississippi in conducting the basic research for the development of a technology to be realized through the economic benefits of the commercialization of a product.

MURA was established in such a way that there is an extensive review process for any proposal for technology transfer or commercialization, which is initiated on the campus with the Chief Research Officer of the affected university. The proposal is then recommended to the President of the university, who must certify that there is no conflict with the university and that the participation of the faculty member in the commercialization of the technology will not bring harm to the university or to the economic development of the state. The President then makes a recommendation for review to the MURA Board, which is designed to assess objectively the nature of the proposed commercialization. The MURA Board is composed of the four University Research Vice-Presidents - three from the comprehensive public universities and one from the urban public university, a representative of the Department of Economic and Community Development, the presidents of the Mississippi Resource Development Corporation and the Mississippi Education Research Group, and the Commissioner of Higher Education. This process of full disclosure and evaluation by MURA serves to assure that each proposal is of economic interest to the state and is not in conflict with the interests or commitments of the state, the university or the faculty member.

This method for technology transfer facilitation is in an embryonic stage and holds tremendous future possibilities for the state of Mississippi. The spillovers from university research, particularly when commercialization occurs, can be far reaching and long-term, but they can only be realized if there is a substantial commitment of time, expertise, and vision. It is the hope of the public universities of Mississippi that MURA is the first step toward such a commitment.

Mississippi Research Consortium (MRC)

The Mississippi Research Consortium, formed in 1986, is a coalition of Mississippi's four research universities -- Jackson State University, Mississippi State University, the University of Mississippi, and the University of Southern Mississippi -- whose chief research officers constitute the Board of Directors. In their capacity as chief research officers, these Board members serve as the driving force for collaborative university-based research. In their role as Board members of the Consortium, they also serve as Science and Technology Research Advisors to the Governor with the responsibility for integrating science and technology initiatives with economic development plans in Mississippi. The Board links the physical and intellectual resources of the universities to identify needs and opportunities for the state and to organize responses to those needs and opportunities. A member of the MRC also serves on the Board of the Mississippi Enterprise for Technology.

The goals of the MRC include to develop, support, and sustain basic and applied research that is nationally competitive; to increase public awareness of science, engineering, and mathematics (K through graduate school) in order to develop a scientifically literate citizenry who will fuel the science and engineering pipeline with the state's human resources and will attract external scientific expertise; to establish and maintain a solid scientific infrastructure, including equipment, collaboration, facilities, private sector linkages, and federal laboratory partnerships; and to expand the economic opportunities of the state through technology/knowledge transfer activities that include commercialization, technical assistance, and education of a workforce that can support technology-based industries.

The creation of the Mississippi Universities Research Authority (MURA) Act of 1992 was the culmination of the Mississippi Research Consortium Technology Transfer Task Force working with the IHL Board Office. Very quickly MRC became involved not only in joint research activities but also in human resource development programs and in science policy issues both within the state and nationally. There is a very successful cooperative agreement with the Stennis Space Center whereby agencies located in the Stennis Center issue task requests, and MRC then puts together from the institutions, the mechanism to develop the proposal to address that task.

Member institutions work from an attitude of mutual respect and trust. All agree that the individual institutions have secured more resources through their combined efforts than any one of them could have received working independently. This attitude has been conveyed to the faculty level, who often initiate the collaborative efforts and recommend that certain proposals go through MRC. Generally, MRC operates by forming faculty teams from several universities to address the research opportunities. The organization has received visibility as a national model especially with the National Science Foundation as a way to put together a state science and technology infrastructure. MRC often works with all eight of the state institutions and the medical center in order to strengthen research components.

Mississippi Education and Research Group (MERG)

The Mississippi Education and Research Group (MERG) was established in 1990 with representation from each of the eight public universities in the state. The primary goals of MERG are to promote collaboration, resource sharing, and communication concerning education and research matters that have an impact on all of the public universities. The result of these efforts is that opportunities which would have been outside the budgetary capabilities of an individual university are made available to the universities through MERG.

The conception of and the need for MERG originated in the Mississippi Research Consortium (MRC), comprised of the Chief Research Officers of the four Research Universities (Jackson State University, Mississippi State University, University of Mississippi, and University of Southern Mississippi). The MRC had successfully promoted collaborative research and collaborative funding among themselves. However, they realized that Mississippi would be best served if a separate organization was created for the coordination of statewide projects. Additionally, this new organization could serve as a vehicle for sharing the research and education expertise of the research universities with the four regional universities (Alcorn State University, Delta State University, Mississippi University for Women, and Mississippi Valley State University) and for the sharing of ideas among all eight state universities. MERG was the result of these considerations.

MERG was initially active with regard to specific projects, most notably, the Mississippi Alliance for Minority Participation (MAMP) and the Rural Science Initiative (RSI). However, many new and important outcomes have evolved from the activities of MERG. In reviewing the accomplishments and initiatives of MERG, three broad categories may be used: (1) Educational Efforts, (2) Research Efforts, and (3) Administrative and Legal Issues related to external funding.

Educational Efforts: MERG served as the coordinating agent for development of the Mississippi Alliance for Minority Participation, a major grant from the National Science Foundation providing financial and academic support to under-represented minorities wishing to pursue careers in science, engineering, and mathematics. MERG members worked from a nuclear concept, developing plans for each of the universities and continuing as the primary coordinating group in the oversight of changes and new directions throughout the program implementation. MERG has also served in the coordinating role for the successful Rural Science Initiative Grant to support public school education in Mississippi, Louisiana, and Arkansas, and has developed a proposal for Science-Humanities initiatives in undergraduate teaching.

Research Efforts: The MRC developed and received major research funding under the EPSCoR programs, designed to advance the research capabilities of universities in selected states. Numerous collaborative research projects have resulted among the research universities. MERG has served as a means of disseminating related research opportunities to the regional universities, and of sharing both human resources and research facilities among all of the eight universities. Finally, MERG has made initial contacts with the National Science Foundation and with MERG members on developing proposals to support the use of the Internet as a research resource and for research discussion groups.

Administrative and Legal Consulting: The four research universities have major grants and development offices, while the regional universities cannot support major operations. Through MERG, the research universities have been able to provide assistance to the regional universities concerning grant proposals, rapidly changing federal regulations, and sources of funding.

Prepared by:

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